form attached to a paper copy of the sequences. It is respectfully requested that the sequence listings be entered into the file.

Please cancel claims 1-3.

Please add the following claims:

8. A bacteria transformed with a plasmid which contains genes cssA and cssB, all of the cssC and DNA sequence of cssD which encodes at least 802 amino acids (at least 2406 base pairs), an origin of replication, a Lac promotor, and a kanamycin resistance gene wherein said bacteria expresses both CS6A and CS6B proteins.

9. A composition of matter comprising bacteria of claim 8 in a pharmaceutically acceptable carrier.

10 A composition of matter comprising the bacteria of claim 9 wherein the carrier is a carbonated beverage.

11. A bacteria of claim 8 containing the sequence:

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  1  AAGCTTGTAA CCAGTTGATA AAAATATATC ACGCTGGGAA TGACGTGATG
 51  TATATACGGA GCAGCTATGT CGGAACAGAT ATTTTCCTAT CGGTATGCGT
101  TGTGAGTAAG CGTAAAGCCA ATGCTGTCTG TAACTCCTGA TCCTTGCAGA
151  CTAAATTAGA GCTCCTTCTA AATTAGACGG ATGGATAAAC CTACAGACTG
201  GCGCTCTGGG TCTCGCCGGA TATTTTCTAA TGAATTTAAG CTTCATATGG
251  TTGAACTGGC TTCGAAACCA AATGCCAATG TCGCACAACT GGCTCGGGAA
301  CATGGCGTTG ATAACAACCT GATTTTTAAA TAGCTACGCC TCTGGCAAAG
351  AGAAGGACGT ATTTCTCGTA GAATGCCTCC AACTATTGTA GGCCCTACAG
401  TACCACTGAG GTAGCCTGAA TTTAAAGCCG AAGCGGTCAG AACTGTTCTT
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 451  GGTGTGAACG TAGCACTCAC CAATAAAAGC ATCAATACGG TGCTCTGTTG
 501  ACACATTACG AATGTTATGT ATACAATAAA AATGATTATA GCAATATTAA
 551  TGGTGTTATA TGAAGAAAAC AATTGGTTTA ATTCTAATTC TTGCTTCATT
 601  CGGCAGCCAT GCCAGAACAG AAATAGCGAC TAAAAACTTC CCAGTATCAA
 651  CGACTATTTC AAAAAGTTTT TTTGCACCTG AACCACGAAT ACAGCCTTCT
 701  TTTGGTGAAA ATGTTGGAAA GGAAGGAGCT TTATTATTTA GTGTGAACTT
 751  AACTGTTCCT GAAAATGTAT CCCAGGTAAC GGTCTACCCT GTTTATGATG
 801  AAGATTATGG GTTAGGACGA CTAGTAAATA CCGCTGATGC TTCCCAATCA
 851  ATAATCTACC AGATTGTTGA TGAGAAAGGG AAAAAAATGT TAAAAGATCA
 901  TGGTGCAGAG GTTACACCTA ATCAACAAAT AACTTTTAAA GCGCTGAATT
 951  ATACTAGCGG GGAAAAAAAA ATATCTCCTG GAATATATAA CGATCAGGTT
1001  ATGGTTGGTT ACTATGTAAA CTAAATACTG GAAGTATGAT TATGTTGAAA
1051  AAAATTATTT CGGCTATTGC ATTAATTGCA GGAACTTCCG GAGTGGTAAA
1101  TGCAGGAAAC TGGCAATATA AATCTCTGGA TGTAAATGTA AATATTGAGC
1151  AAAATTTTAT TCCAGATATT GATTCCGCTG TTCGTATAAT ACCTGTTAAT
1201  TACGATTCGG ACCCGAAACT GGATTCACAG TTATATACGG TTGAGATGAC
1251  GATCCCTGCA GGTGTAAGCG CAGTTAAAAT CGCACCAACA GATAGTCTGA
1301  CATCTTCTGG ACAGCAGATC GGAAAGCTGG TTAATGTAAA CAATCCAGAT
1351  CAAAATATGA ATTATTATAT CAGAAAGGAT TCTGGCGCTG GTAACTTTAT
1401  GGCAGGACAA AAAGGATCCT TTCCTGTCAA AGAGAATACG TCATACACAT
1451  TCTCAGCAAT TTATACTGGT GGCGAATACC CTAATAGCGG ATATTCGTCT
1501  GGTACTTATG CAGGAAATTT GACTGTATCA TTTTACAGCA ATTAAAAAAA
1551  GGCCGCATTA TTGCGGCCAT TGACGATACT GCTAGGCAAA AATATGAAAT
1601  CAAAGTTAAT TATACTATTG ACGTTAGTGC CATTTTCATC TTTTTCAACA
1651  GGAAATAATT TTGAAATAAA TAAGACACGA GTAATTTACT CTGACAGCAC
1701  ACCATCAGTT CAAATATCAA ATAATAAAGC ATATCCTTTA ATTATTCAAA
1751  GCAATGTATG GGATGAAAGC AATAATAAAA ATCATGACTT TATAGCAACA
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1801 CCACCGATTT TTAAAATGGA AAGTGAAAGT CGGAATATAA TAAAAATAAT

1851 TAAAACAACT ATTAATTTGC CGGACTCTCA GGAAAGTATG AGATGGTTAT

1901 GTATTGAATC AATGCCACCA ATAGAAAAAA GTACTAAAAT AAACAGAAAA

1951 GAAGGAAGGA CAGACAGTAT TAATATCAGC ATTCGGGGGT GCATTAAACT

2001 GATATATCGA CCTGCCAGTG TTCCGTCTCC TGTTTTTAAT AATATAGTAG

2051 AAAAATTAAA ATGGCATAAA AATGGAAAGT ATCTTGTATT AAAAAATAAT

2101 ACACCCTATT ACATTAGCTT TTCTGAGGTT TTTTTTGATT CAGATAAAGT

2151 AAACAATGCA AAAGATATTT TATATGTAAA ACCATACTCA GAGAAGAAAA

2201 TAGATATCAG CAACAGAATA ATAAAAAAAA TCAAATGGGC TATGATTGAT

2251 GATGCTGGCG CAAAAACAAA ACTTTATGAA TCAATTTTAT AAAAAATCTC

2301 ATTACAGTAT ACAAAAACAT CAGATTACAG GCTTGCTTTT TTTGCTATTT

2351 ATATATCCTT TCTCAACCTC ATATGGAAAT GAACAATTTA GTTTTGACTC

2401 ACGATTCCTA CCATCAGGTT ATAATTACTC TTTAAATAGT AACTTACCTC

2451 CTGAAGGTGA GTATCTGGTT GATATTTATA TTAACAAAAT AAAAAAGGAG

2501 TCCGCGATTA TTCCTTTTTA TATAAAAGGA AATAAACTTG TACCATGTTT

2551 ATCAAAAGAA AAAATTTCAT CTTTGGGTAT CAACATTAAT AATAACGACA

2601 ACACAGAGTG TGTAGAAACA AGTAAGGCAG GTATTAGTAA TATCAGCTTT

2651 GAGTTTAGCT CTCTTCGTTT GTTTATTGCT GTACCGAAAA ATCTTCTGTC

2701 TGAGATTGAT AAAATATCAT CAAAGGATAT AGATAACGGG ATTCATGCTT

2751 TATTTTTTAA TTATCAAGTA AATACAAGGC TAGCCAATAA TAAAAATCGT

2801 TATGATTACA TTTCTGTTTC ACCAAATATA AATTATTTTT CATGGCGGTT

2851 GCGTAATCTT TTTGAATTTA ACCAAAACAA CGATGAAAAA ACATGGGAAA

2901 GAAACTACAC TTATCTAGAA AAAAGTTTTT ATGATAAAAA GCTAAACTTA

2951 GTCGTTGGTG AAAGTTATAC GAATTCAAAT GTTTATAATA ACTACTCTTT

3001 TACTGGTATT TCAGTTTCTA CAGATACAGA TATGTATACG CCAAGTGAAA

3051 TCGATTATAC ACCAGAAATT CATGGAGTGG CTGATTCAGA CTCTCAGATT

3101 ATTGTCAGGC AAGGCAACAC CATTATCATT AATGAAAGTG TTCCAGCCGG

3151 ACCGTTCTCA TTTCCAATAA CCAATCTCAT GTATACTGGG GGGCAACTTA

3201 ATGTGGAGAT AACAGATATT TATGGAAATA AAAAACAATA TACTGTCAAT

3251 AATTCCTCTC TTCCTGTTAT GAGAAAAGCG GGACTAATGG TATATAATTT

3301 TATATCTGGG AAATTAACAA AAAAAAATAG TGAGGATGGT GATTTTTTTA

3351 CTCAAGGTGA TATTAACTAC GGTACTCACT ATAACAGCAC ACTATTCGGT

3401 GGATATCAGT TTAGTAAAAA TTATTTTAAC TTATCTACTG GTATAGGCAC

3451 TGATCTGGGA TTTTCTGGAG CATGGCTACT ACACGTTAGC AGAAGTAATT

3501 TTAAGAATAA AAATGGATAT AATATTAATC TACAACAAAA CACTCAGTTA

3551 AGACCATTCA ATGCCGGGGT TAATTTCGAT TACGCATACA GAAAAAAAAG

3601 GTATGTGGAA CTTTCCGACA TTGGCTGGCA TGGTAATTTA TATAATCAAC

3651 TTAAAAATAG TTTTTCTTTA TCCTTGTCAA AATCATTGAA TAAATACGGA

3701 AATTTCTCAC TTGATTATAA CAAAATGAAA TACTGGGATA ATGCGTATGA

3751 TAGTAACTCA ATGTCGATTC GTTATTTTTT TAAATTCATG CGAGCAATGA

3801 TTACAACAAA TTGTTCTTTA AATAAATATC AATCTTATGA AAAAAAAGAT

3851 AAAAGATTTA GTATTAATAT ATCATTGCCT TTAACCAAAG ATTACGGGCA

3901 CATATCTTCA AACTATTCAT TTTCCAATGC AAATACAGGA ACGGCAACCA

3951 GTTCTGTAGG CTTAAACGGT AGTTTTTTTA ATGACGCAAG ATTAAACTGG

4001 AACATTCAGC AGAACAGAAC GACCCGTAAC AATGGATATA CTGATAATAC

4051 CAGTTACATA GCAACCAGCT ATGCCTCTCC CTATGGCGTT TTTACTGGTT

4101 CATATTCAGG ATCGAACAAG TATTCAAGCC AGTTTTATTC TGCATCGGGA

4151 GGTATTGTTT TGCATAGCGA TGGCGTAGCT TTTACTCAAA AAGCCGGAGA

4201 TACCTCTGCT CTTGTCCGTA TTGATAATAT TTCTGATATA AAAATTGGTA

4251 ACACTCCTGG TGTTTATACT GGGTATAATG GTTTTGCTTT AATTCCTCAT

4301 CTTCAGCCGT TCAAAAAAAA CACCATTTTA ATTAATGATA AAGGAATTCC

4351 AGACGGTATT ACTCTTGCTA ATATAAAAAA ACAAGTTATC CCATCACGAG

4401 GAGCTATTGT TAAAGTAAAA TTTGATGCTA AAAAAGGCAA TGACATTTTG

4451 TTTAAGCTTA CAACTAAAGA TGGAAAAACG CCCCCATTAG GAGCTATAGC

4501 CCATGAAAAA AATGGAAAAC AGATTAATAC GGGTATCGTT GACGATGATG

4551 GTATGCTTTA TATGTCTGGA TTATCAGGGA CAGGGATTAT TAATGTAACA

4601 TGGAATGGAA AAGTCTGTTC ATTTCCTTTT TCAGAAAAAG ATATATCTAG

4651 CAAACAATTA TCTGTTGTAA ATAAACAATG TTAGGTAGTG CATCCAATTA

4701 GTAGAACATG TGTTTTTCGA TAAACGCTCC GATCTCTTTT TCGTGGATCT

4751 CAACTGAGCG TGAGAAGCAG ATTGTTTTAC GAGCCAACCG CTTAATGCGG

4801 GTGCGTAGCG TCAGATTATT ACGCTCAATG CGTTGGGTGA ATATTTTGCC

4851 GGTCAGATGC TTATTCTTCG GTACC **(Sequence ID No #1)**

12. A protein expressed by the bacteria of claim 8 containing the sequence:

R T E I A T K N F P V S T T I S K S F F A

P E P R I Q P S F G E N V G K E G A L L F

S V N L T V P E N V S Q V T V Y P V Y D E

D Y G L G R L V N T A D A S Q S I I Y Q I

V D E K G K K M L K D H G A E V T P N Q Q

I T F K A L N Y T S G E K K I S P G I Y N

D Q V M V G Y Y V N. (SEQ. ID No. 9)

13. A protein expressed by the bacteria of claim 8 containing the sequence:

GNWQYKSLDV NVNIEQNFIP DIDSAVRIIP VNYDSDPKLD SQLYTVEMTI PAGVSAVKIA PTDSLTSSGQ QIGKLVNVNN PDQNMNYYIR KDSGAGNFMA GQKGSFPVKE NTSYTFSAIY TGGEYPNSGY SSGTYAGNLT VSFYSN.

(SEQ. ID No. 10)

Response to Restriction

Applicant hereby requests the examination of the claims of

the newly added claims drawn to bacteria, which do not fall into any of the groups as presently identified, but correspond more closely to the claims under consideration in the final action of the prior application.

Respectfully submitted,

Glenna Hendricks, Reg. No. 32,535